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1 Understanding patients: participatory approaches for the user evaluation of vital data presentation   ☐
Karl A. Stroetmann, Michael Pieper, Veli N. Stroetmann
June 2002   **ACM SIGCAPH Computers and the Physically Handicapped , Proceedings of the 2003 conference on Universal usability CUU '03**, Issue 73-74
Publisher: ACM Press
Full text available: 📄 pdf(186.52 KB)   Additional Information: full citation, abstract, references, index terms

> The objective of our research was to undertake first steps to analyse patient access to their electronic health records (EHR) as a crucial universal access issue: Why is patient involvement becoming a key issue, what approaches are available to learn more about patient attitudes and needs, which concrete outcomes can be obtained from such research? The paper outlines a reference scenario for tele home monitoring of chronically ill patients including measurement devices and system environment, pr ...
>
> **Keywords:** assessment, electronic health record, participatory approaches, patient, telemonitoring, universal access, validation

2 Papers: Pupil consultation online: developing a web-based questionnaire system   ☐
Scott Milne, Lorna Gibson, Peter Gregor, Ken Keighren
July 2003   **Proceeding of the 2003 conference on Interaction design and children IDC '03**
Publisher: ACM Press
Full text available: 📄 pdf(740.51 KB)   Additional Information: full citation, abstract, references, citings

> The idea of consulting pupils about developments in their schools is now established in legislation and practice in schools. While many methods of performing such consultations have been employed for a number of years, a new system has been developed which can offer a consultation environment previously not available. An online pupil consultation system for use in schools throughout Fife Council is designed so that staff members can build questionnaires, allow pupils to complete them anonymously ...
>
> **Keywords:** children, interactivity, pupil consultation

3 People: The well-tempered practitioner: Designing useful and usable questionnaires: you can't just "throw a questionnaire together"   ☐
Chauncey E. Wilson
May 2007   **interactions**, Volume 14 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(216.02 KB) 🌐 html (16.60 KB)   Additional Information: full citation, references, index terms

4 Programming by questionnaire: an effective way to use decision tables   ☐
David W. Low
May 1973   **Communications of the ACM**, Volume 16 Issue 5
Publisher: ACM Press
Full text available: 📄 pdf(506.85 KB)   Additional Information: full citation, abstract, references

> Programming by questionnaire combines aspects of decision table programming and general purpose programming by using decision tables to construct an application program through the selection of certain source statements from a predefined file. It is proposed that programming by questionnaire is a useful compromise between general and special purpose programming for a significant class of large scale problems. The elements of the approach are discussed and an existing application is describe ...

Keywords: applications development, automatic program generation, customizing, modeling, no reprogramming, programmer productivity, simulator generation

5   Questionnaires as a software evaluation tool
Robert W. Root, Steve Draper
December 1983 **Proceedings of the SIGCHI conference on Human Factors in Computing Systems CHI '83**
Publisher: ACM Press
Full text available: pdf(501.81 KB)   Additional Information: full citation, abstract, citings, index terms

This paper reports on a study investigating the strengths and weaknesses of questionnaires as software evaluation tools. Two major influences on the usefulness of questionnaire-based evaluation responses are examined: the administration of the questionnaire, and the background and experience of the respondent. Two questionnaires were administered to a large number of students in an introductory programming class. The questionnaires were also given to a group of more experienced users (inclu ...

6   Issues of usability in hypermedia systems: a usability estimation questionnaire for hypermedia designers
Nikos Tsirakis, Nikos Karousos, George Gkotsis
November 2005 **Proceedings of the 2005 symposia on Metainformatics MIS '05**
Publisher: ACM Press
Full text available: pdf(160.54 KB)   Additional Information: full citation, abstract, references

Open Hypermedia have come up with several systems, which can provide services to software developers. This paper argues that usability is a critical attribute that should be taken into consideration during the development process of an Open Hypermedia System (OHS). An analysis of the usability issue from a developer's perspective is carried out. Moreover, targeting at a usability estimation technique, a questionnaire for OHSs designers is being proposed. Finally, some evaluation results of nu ...

Keywords: hypermedia, hypermedia development, usability

7   How people read sociograms: a questionnaire study
Weidong Huang, Seok-Hee Hong, Peter Eades
November 2006 **Proceedings of the Asia Pacific symposium on Information visualisation - Volume 60 APVIS '06**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(277.49 KB)   Additional Information: full citation, abstract, references

Visualizing social network data into sociograms plays an important role in communicating information about network characteristics. Previous studies have shown that human perceptions of network features can be affected by the layout of a sociogram [McGrath et al. 1996, 1997]. An empirical user study has been conducted to investigate effectiveness of five different network visualization conventions and impact of edge crossings on sociogram perceptions, using both quantitative performance and p ...

Keywords: edge crossing, questionnaire, social network, sociogram perception

8   Principles of survey research: Principles of survey research part 4: questionnaire evaluation
Barbara Kitchenham, Shari Lawrence Pfleeger
May 2002   **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 3
Publisher: ACM Press
Full text available: pdf(482.50 KB)   Additional Information: full citation, abstract, references, citings

This article discusses how to avoid biased questions in survey instruments, how to motivate people to complete instruments and how to evaluate instruments. In the context of survey evaluation, we discuss how to assess survey reliability i.e. how reproducible a survey's data is and survey validity i.e. how well a survey instrument measures what it sets out to measure.

Keywords: researcher bias, respondent motivation, survey reliability, survey validity

9   How people read sociograms: a questionnaire study
Weidong Huang, Seok-Hee Hong, Peter Eades
January 2006 **Proceedings of the 2006 Asia-Pacific Symposium on Information Visualisation - Volume 60 APVis '06**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(254.98 KB)   Additional Information: full citation, abstract, references, index terms

Visualizing social network data into sociograms plays an important role in communicating information

about network characteristics. Previous studies have shown that human perceptions of network features can be affected by the layout of a sociogram [McGrath et al. 1996, 1997]. An empirical user study has been conducted to investigate effectiveness of five different network visualization conventions and impact of edge crossings on sociogram perceptions, using both quantitative performance and pref ...

Keywords: edge crossing, questionnaire, social network, sociogram perception

10   Reverse engineering questionnaire

Kostas A. Kontogiannis, Scott R. Tilley
January 1994   **ACM SIGSOFT Software Engineering Notes**, Volume 19 Issue 1
Publisher: ACM Press
Full text available: pdf(386.05 KB)   Additional Information: full citation, abstract, index terms

This is a questionnaire on program understanding and reverse engineering. It may be filled out manually or on-line. The results of the questionnaire will be used to guide the research of the two authors, both of whom are Ph.D. students working in this area. Copies of the resulting report will be mailed to all who participate, and a summary of the results will be published in an appropriate forum.

11   Psychometric evaluation of an after-scenario questionnaire for computer usability studies: the ASQ

James R. Lewis
December 1990 **ACM SIGCHI Bulletin**, Volume 23 Issue 1
Publisher: ACM Press
Full text available: pdf(371.36 KB)   Additional Information: full citation, abstract, references, citings, index terms

A three-item after-scenario questionnaire was used in three related usability tests in different areas of the United States. The studies had eight scenarios in common. After participants finished a scenario, they completed the After-Scenario Questionnaire (the ASQ). A factor analysis of the responses to the ASQ items revealed that an eight-factor solution explained 94 percent of the variability of the 24 (eight scenarios by three items per scenario) items. The varimax-rotated factor pattern show ...

12   Mining from open answers in questionnaire data

Hang Li, Kenji Yamanishi
August 2001   **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining KDD '01**
Publisher: ACM Press
Full text available: pdf(643.01 KB)   Additional Information: full citation, abstract, references, citings, index terms

Surveys are an important part of marketing and customer relationship management, and open answers (i.e., answers to open questions) in particular may contain valuable information and provide an important basis for making business decisions. We have developed a text mining system that provides a new way for analyzing open answers in questionnaire data. The product is able to perform the following two functions: (A) accurate extraction of characteristics for individual analysis targets, (B) accura ...

Keywords: Association Rules, Classification Rules, Correspondence Analysis, Open Question, Questionnaire Data, Survey, Text Mining

13   A questionnaire analysis of the needs and opportunities provided to employees at a computing center

Michael P. Munger, Donald F. Costello, Susan C. Duda
June 1970   **Proceedings of the eighth annual SIGCPR conference**
Publisher: ACM Press
Full text available: pdf(878.50 KB)   Additional Information: full citation, abstract, references, citings, index terms

The management of the University of Nebraska Computing Center (UNCC) is faced with primarily two tasks. The first task is making decisions in accordance with externally imposed conditions, such as physical resources and policies established by the University administration. The second task is making decisions according to UNCC internal policies and professional staff needs. With respect to the second task, it became apparent during planning sessions that management had available various sou ...

14   Late breaking result papers: Computerized self-administered questionnaires on touchscreen kiosks: do they tell the truth?

P.J. Blignaut
April 2004   **CHI '04 extended abstracts on Human factors in computing systems CHI '04**
Publisher: ACM Press
Full text available: pdf(114.90 KB)   Additional Information: full citation, abstract, references, index terms

A computerized self-administered questionnaire (CSAQ) was implemented on a touchscreen-based information kiosk. Because of the voluntary nature thereof and uncontrolled circumstances in which respondents could complete the survey, it was essential to determine whether the feedback could be

regarded as representing the true feelings of kiosk users. Respondents were categorized according to the number of items completed and the internal consistency of responses within each category was examined. R ...

Keywords: information kiosk, self-administered questionnaires, touchscreen, usability analysis

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15 A probabilistic similarity index between binary vectors for questionnaire data analysis (abstract only)

Xiaobo Li

February 1987 **Proceedings of the 15th annual conference on Computer Science CSC '87**

Publisher: ACM Press

Full text available: pdf(102.90 KB)   Additional Information: full citation, abstract, references, index terms

This paper proposes a probabilistic similarity index as a proximity measure between binary feature vectors. Different situations of binary features are analyzed and applications of the new index to questionnaire analysis is reported. Binary vectors are the most frequently used data format in computer science. Pattern recognition problems, such as questionnaire data analysis, require that the association between binary pattern vectors or feature vectors be measured. Many associati ...

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16 Criterion for judging request intention in response texts of open-ended questionnaires

Inui Hiroko, Utiyama Masao, Isahara Hitoshi

July 2003   **Proceedings of the second international workshop on Paraphrasing - Volume 16**

Publisher: Association for Computational Linguistics

Full text available: pdf(343.34 KB)   Additional Information: full citation, abstract, references

Our general research aim is to extract the actual intentions of persons when they respond to open-ended questionnaires. These intentions include the desire to make requests, complaints, expressions of resignation and so forth, but here we focus on extracting the intention to make a request. To do so, we first have to judge whether their responses contain the intent to make a request. Therefore, as a first step, we have developed a criterion for judging the existence of request intentions in resp ...

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17 A questionnaire

Anthony P. Lucido

March 1972   **ACM SIGGRAPH Computer Graphics , Proceedings of the 1972 SIGGRAPH seminar on Computer graphics in medicine**, Volume 6 Issue 4

Publisher: ACM Press

Full text available: pdf(214.43 KB)   Additional Information: full citation, abstract, index terms

Comments from the editors To determine the current status of some of the work being done by our readers I have put together a questionnaire. The questionnaire itself will be found following this short note. I would appreciate hearing from all persons currently doing some work in the area of computer graphics, or from anyone wishing to contribute information on a system in use. I will try to put all responses together (assuming someone out there responds) and summarize what is bei ...

---

18 AN AFTER-SCENARIO QUESTIONNAIRE FOR USABILITY STUDIES: PSYCHOMETRIC EVALUATION OVER THREE TRIALS

James R. Lewis

October 1991 **ACM SIGCHI Bulletin**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(99.17 KB)   Additional Information: full citation, abstract, references

The purpose of this report is to (1) describe a psychometric evaluation of a printer scenario questionnaire (PSQ) that was used to assess user satisfaction during scenario-based usability studies of printers and (2) compare the psychometric properties of the PSQ with those of the After-Scenario Questionnaire (ASQ) (Lewis, 1991b). The PSQ is similar to the ASQ, but is composed of three five-point scales rather than three seven-point scales.

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19 Questionnaire results

January 1969 **Proceedings of the conference on APL APL '69**

Publisher: ACM Press

Full text available: pdf(960.04 KB)   Additional Information: full citation, abstract, index terms

As a result of the Conference, a questionnaire was mailed to about 120 registrants, one to an installation, requesting that they submit a priority list of their desires in terms of additional APL support or further elements of implementation. About 50 questionnaires were returned; some of these were from 1130 users, some were from installations that had little or no experience with APL. There was a rather distinct, definable pattern of response. The items are listed below, in an ...

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20 Design parameters of rating scales for web sites

Paul Van Schaik, Jonathan Ling

May 2007   **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 14 Issue 1

The effects of design parameters of rating scales on the perceived quality of interaction with web sites were investigated, using four scales (Disorientation, Perceived ease of use, Perceived usefulness and Flow). Overall, the scales exhibited good psychometric properties. In Experiment 1, psychometric results generally converged between two response formats (visual analogue scale and Likert scale). However, in Experiment 2, presentation of one questionnaire item per page was better than all ...

Keywords: Human-computer interaction, Likert scale, interaction mechanism, online questionnaires, psychometrics, questionnaire layout, response format, screen design, visual analogue scale, web site

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Huyn, P.; Lacroix, Z.; Perrone, A.;
Information Technology Applications in Biomedicine, 2000. Proceedings. 2000 IEEE EMBS International Conference on
9-10 Nov. 2000 Page(s):316 - 323
Digital Object Identifier 10.1109/ITAB.2000.892409

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Aldridge, S.;
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Volume 51, Issue 8, Aug. 2005 Page(s):34 - 38

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Subramanian, M.; Ali, A.S.; Rana, O.; Hardisty, A.; Conley, E.C.;
Modern Computing, 2006. JVA '06. IEEE John Vincent Atanasoff 2006 International Symposium on
Oct. 2006 Page(s):107 - 113
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☐ 4. **Health informatics: a key driver for integrated drug delivery systems**
Price, S.; Summers, R.;
Engineering in Medicine and Biology Society, 2003. Proceedings of the 25th Annual International Conference of the IEEE
Volume 4, 17-21 Sept. 2003 Page(s):3870 - 3872 Vol.4

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☐ 5. **Hypertension decision support aid for use in clinical practice**
Wilson, S.L.; Carson, E.R.; Roudsari, A.V.;
Intelligent Decision Support in Clinical Practice (Ref. No. 1998/462), IEE Colloquium on
22 June 1998 Page(s):8/1 - 8/3

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☐ 6. **Application and Evaluation of Personal Health Information Management System**
Eung-Hun Kim; Maisie Wang; Christopher Lau; Yongmin Kim;
Engineering in Medicine and Biology Society, 2004. EMBC 2004. Conference Proceedings. 26th

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Longitudinal patient-centered collection and analysis of clinical data

Huyn, P. Lacroix, Z. Perrone, A.
SurroMed Inc., Palo Alto, CA, USA ;

Abstract
Most available computer-assisted clinical questionnaire systems are generally designed to be used by the medical practitioner, rather than the patient. The Web-based questionnaire system presented: is designed to elicit clinical information directly from the patient; is entirely governed by logical specifications which are dynamically retrieved from a database; makes information gathering efficient, both in terms of the precision with which the forms content is selected to be presented to the user, and in terms of presentation speed; anc free of medical bias in its administration. A **patient-centered** approach also affects the analysis of collected data. When a questionnaire is managed by healthcare providers, they are the experts and do the analysis of clinical data with their medical wisdom. With an approach based on a global **collection** of clinical data directl from patients over time, new data analysis tools are needed to generate medical information. Our approach aims to extract more general medical concepts such as the detection of early stage of disease. The clinical data analysis engine presented: uses a variety of built-in medical wisdom such as medical pathways, scorinç or analysis of symptoms over time; can be directed either towards a given patient's health or a large sample patients for data mining; and generates medical information out of collected clinical data for a variety of user: the patients themselves, their caregivers or medical researchers

Index Terms
Inspec

Controlled Indexing
Internet   data analysis   medical administrative data processing

Non-controlled Indexing
Web-based questionnaire system   clinical data   clinical data analysis engine   clinical information   computer-assisted clinical questionnaire systems   data mining   information gathering   longitudinal **patient-centered collection**   medical information   medical practitioner   **patient-centered** approach

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